

**IL-1 $\alpha$**   
**Catalog # PVGS1152****Specification**

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**IL-1 $\alpha$  - Product Information**

Primary Accession [Q3U0Y6](#)  
**Species**  
Mouse

**Sequence**  
Ser115-Ser270

**Purity**  
> 97% as analyzed by SDS-PAGE  
> 97% as analyzed by HPLC

**Endotoxin Level**  
< 1 EU/  $\mu$ g of protein by LAL method

**Biological Activity**  
Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by a cell proliferation assay using murine D10S cells is less than 2.0 pg/ml, corresponding to a specific activity of > 5.0  $\times 10^8$  IU/mg.

**Expression System**  
E. coli

**Theoretical Molecular Weight**  
17.9 kDa

Formulation **Lyophilized from a 0.2  $\mu$ m filtered solution in PBS, pH 7.4.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

**IL-1 $\alpha$  - Additional Information**

**Target Background**  
Interleukin-1 alpha (IL-1 $\alpha$ ) is a non-secreted proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 $\alpha$  and IL-1 $\beta$  binds to the same receptor and has similar if not identical biological properties. These cytokines have a broad range of activities including, stimulation of thymocyte proliferation, by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity and the

ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1 $\beta$  is a secreted cytokine, IL-1 $\alpha$  is predominantly a cell-associated cytokine.

### **IL-1 $\alpha$ - Protein Information**

### **IL-1 $\alpha$ - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **IL-1 $\alpha$ - Images**